

The

NUCLEUS

September 1944

The NUCLEUS



PRESENTED
BY . . .

. . . THE CLASS OF
SEPTEMBER 1944

NEWARK COLLEGE OF ENGINEERING
NEWARK, NEW JERSEY

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Our Alma Mater

All hail to the Scarlet,
Our voices ring out in fullness
Ever we're true to the name we up-hold
And so we sing to the glory
And honor of our Alma Mater
For N.C.E. we've known so well,
Our love will never die.



ALLAN R. CULLIMORE
President

To the Class of September, 1944

WE ALL are busy just now with the subject of reconversion. How are we going to redirect all the energy and all our productive capacity along peaceful lines? What is going to be the pattern of this great transformation? Moreover, perhaps our greatest interest and perhaps anxiety has to do with what part we're to take in it. It is of course a very large question and there are many factors at work and certainly no one person however great or however well informed can know just how everything is going to work out.

There are a few things, however, that can be said with great certainty.

The first is that the boys and men who are doing the fighting and the girls and women who are helping them are fighting for something they want and they are going to get it:—jobs, a life where they can pursue what they call happiness as much as they want to. A world where they can do the things they want to do is the world we all want. Putting it bluntly they want a good job and a good time and by a good time I mean a home, a family, a car, a radio and money to spend in the right sort of way.

This all means jobs. Jobs mean production. Production means planning. It means design of material things and management of manpower. It means distribution, by ships, by railroad, by air. It means the opening up of foreign markets, the establishment of factories here and abroad, the building of homes, sewers, water supply, the making of everything for normal civil life which we haven't been able to make for four years more or less.

Who is going to do the designing, the planning, the management, the developing of new markets for technical products? Europe can't do all of her own development without our help any more than she could produce all the war materials without our help. Who is going to manage this big job? Partly, American engineers. For four years we have been cutting down on the production of American engineers. There are not enough to go around now. A great many young engineers are needed now to help reconvert. Yours is a great responsibility and a great opportunity. Perhaps you have a better chance to do big things than has been given to any other graduates of any other year. I think you have and you will find it out before long. So good luck.

Allan R. Cullimore



PROF. HAROLD E. WALTER
Class Adviser

Greetings to the Graduating Class

PERMIT me to extend my sincere congratulations to you—the Second Graduating Class of the War Year 1944. This fact, in itself, seems to set you apart from other classes and to emphasize the unusualness of your College experience. You are different because the War has made you so. Your careers here, as compared with normal, have been accelerated and at times hectic. After graduation you will plunge into a world which is in need of young men of scientific background. No matter what your occupation, you will be charged with responsibilities far beyond those which were entrusted to your predecessors. If you measure-up to these obligations then you will mature rapidly, advance quickly and prosper surely, in fact, you may soon find that you are being entrusted with responsibilities beyond your loftiest aspirations. But, be careful, an estate so easily won can be lost just as readily.

Let us look ahead just a little bit. You will either enter industry or the Armed Forces. In the Armed Forces you will probably obtain a commission with its obligations. Within industry you will be assigned to tasks normally handled by men many years your senior. When the peace comes, and pray may it come soon, you will be obliged either to start afresh within industry or to meet the competition of favored veterans from the Armed Forces. Either experience will test your mettle. But of this you can be sure—if you are capable you will stick; if you are capable and persistent you will advance; if you are capable, persistent and human you will achieve. The achieving type of man is independent of the times—he is not controlled by circumstances nor is he buffeted about by depressions or so-called business cycles. The successful man advances because he gives and his rate of progress is just about in direct proportion to the contribution he makes. You see, there is no room for pull or favoritism in this philosophy, it is in fact not needed nor wanted.

You have reached your goal insofar as your relationship to this College is concerned. To have graduated from here in normal times is no little accomplishment—to have successfully completed this program in this era with its trials and distractions is indeed an achievement. May the drive and the ability which has enabled you to accomplish this, the first of your life's objectives, carry you safely through and over the obstacles which are yet to come.

H. E. Walter



Administration



HAROLD N. CUMMINGS
Vice-President



JAMES A. BRADLEY
Dean in charge of graduate courses



ROBERT W. VAN HOUTEN
Dean



IRVIN G. MORRIS
Assistant Dean

Departmental Heads



PROF. VERNON T. STEWART
Chemical Engineering Department



PROF. JAMES M. ROBBINS
Civil Engineering Department



PROF. JAMES C. PEET
Electrical Engineering Department



DR. FRANK D. CARVIN
Mechanical Engineering Department

Class History



THE HISTORY of the September 1944 class of Newark College of Engineering began when 250 young, aspiring engineers went to their first classes on a cool, autumn day. The world was in somewhat of a turmoil, but the United States was as yet not in the war. The student body was amazed to see *two* new co-eds among the group, a heretofore unheard phenomenon. However, after the first few weeks, things became settled, and the first elections were held. The officers were William Wyrrough, President; Jack Young, Vice-President; Loni Windbuehl, Secretary; and Jack Weber, Treasurer. At about the same time the traditional football game between the Freshmen and Sophomores were held. Two games were played; both

ending in a tie score. A Freshman dance, called the "Bunny Hop", was planned and successfully carried out. By this time war was declared, but this did not prevent 70 more students from joining the class in February. Months passed, and in June, the summer vacation was begun for all except the February freshmen. No one knew that this was going to be the last summer off for those who were to be fortunate enough to graduate.

In September the class was back, minus the usual number of casualties. Soon afterwards the National Selective Service Law, or colloquially, "The Draft", was amended to reach down into the hitherto deferred 18 to 21 age group. Those at N. C. E. were urged to enlist in the various reserve units, to await call sometime in the future. Meantime, elections had been held, and those chosen were Jack Young, President; William Wyrrough, Vice President; Loni Windbuehl, Secretary; and Jack Weber, Treasurer. Plans were also made for the Soph Hop; the actual name selected was "Dansophobia". This also proved a success.

In February 1943 the first reservists were called to active duty. However, the majority of them were allowed to stay until July. The administration meanwhile, planned an accelerated program, whereby students would be expected to go to school during the summer as well, so as to finish their studies sooner than the previously set date of June 1945.

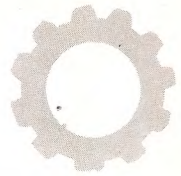
After the reservists left, the rest of the class, now Juniors, numbered only about one-third of the original amount. Going to school during the summer was a new experience, but all "weathered the shine". William Hugenbruch had been elected president; Patrick Travisano, Vice-President; Loni Windbuehl, Secretary; and Emil Spina, Treasurer. Conditions were unsettled, however. Most of those remaining were still subject to draft call, and much time was spent in worrying about the future. "Bill" Hugenbruch left, and "Pat" took charge of the class. Because of the unsettled state of affairs and lack of funds, no Junior Prom was held.

February 1944 saw only a handful of the original class returning. The officers of the last year were Bernard Coopersmith, President; Millard Spialter, Vice-President; Loni Windbuehl, Secretary (the fourth time); and Alvin Stein, Treasurer. Men kept dropping out, the president of the class being among them. The summer session saw even more men leave, and at graduation, only about twenty-five members were on hand to receive the degrees.

And so ends the history of this class of September 1944, within the hallowed walls and on the campus of N. C. E. The deeds, acts, and accomplishments of the class in the years to come, are now turned over for recording by future historians. May they be worthy of their notice.

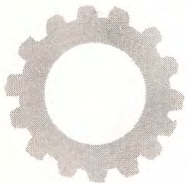
Myron H. Bell

"Mike" was perhaps one of the cleverest of all the students in the Senior Class. Behind his outward quiet and unassuming manner was hidden a real personality. He demonstrated his leadership abilities when he served the Phi Delta Mu fraternity as vice-president and later president. As a man of varied interests, "Mike" helped put over the Nucleus by his excellent photography work. As a speaker, he will be remembered for his part as master of ceremonies at one of the most successful meetings sponsored by the joint professional societies during his senior year. "Mike" was a member of A. S. M. E.



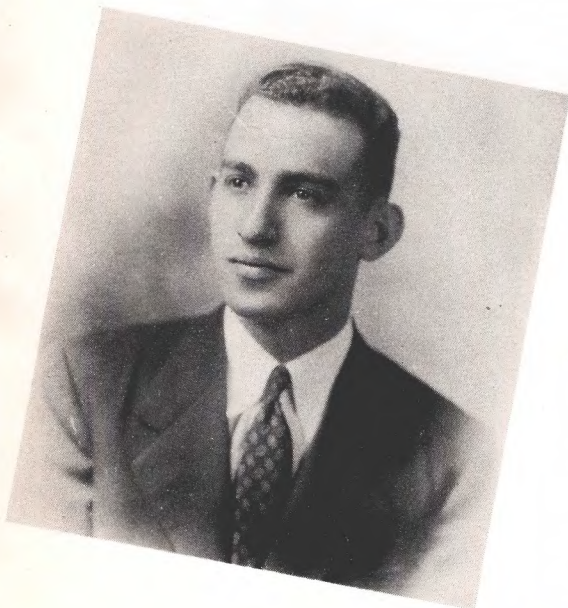
Joshua Calman

"Josh" was a product of night school. He started at Newark Tech in 1937, together with Niesz and Russell, but transferred to day school this year for the purpose of accelerating his courses. Aside from school, he was engaged in tool designing for the Pollak Manufacturing Co. Between school and work, "Josh" found time to take summer courses at Newark University, and to attend the ballet and concerts in New York. His dignified, precise manner of speaking always helped to clear up problems arising in class. His Calabash pipe was a familiar sight outside of school.



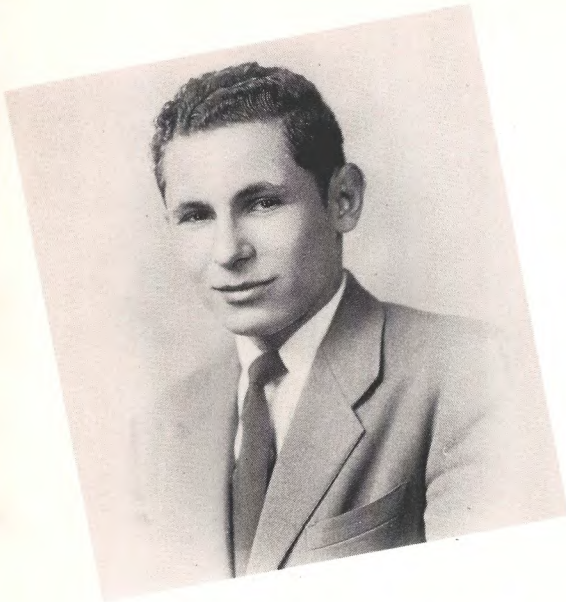
Sidney M. Caplan

Among the more energetic members of the class one would be sure to include "Cappy". His ability to cover territory on the basketball court was phenomenal, and his speed also made him a dangerous opponent in tennis. Very active socially, "Cappy" served as president of the Phi Delta Mu fraternity until his induction shortly before graduation. Far removed from active life was his hobby of collecting ferns. His collection was reputed to have made many a horticulturist jealous. Research in high frequency was another favorite pastime. "Cappy" also helped out on the literary staff of the Nucleus, and was a member of the A. S. M. E.



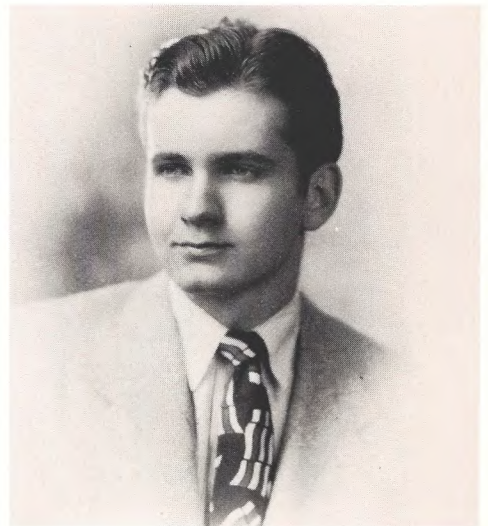
Stuart A. Cash

"Stu", as he was called by his friends—and this category covers a great deal of territory—helped the Nucleus, in his capacity as Advertising Manager, almost pay for itself. In his spare time, of which he had little, he liked to tinker with his Ford. His other activities kept him well occupied. He worked with several classmates at Federal Telephone and Radio, where he did his part in winning the war. He could always be depended upon to attend any social affair with his "one and only". As a softball player, he should at least make a fine sales engineer.



Walter Clark

"Walt" was one of the quieter members of the class, but his subtle sense of humor enlivened many otherwise dead moments. This gum-chewing citizen from Union, N. J. could be seen daily "crawling" along High Street in his Chevy coupe. Clark (one professor pronounced it Clahk) had many hobbies. His bright ties never ceased to cause a heated discussion. He was also an ardent sailboat fan, and spent much time cruising along the Jersey shore. A musician of note, "Walt" could "give out" with his trumpet when "in the mood". His extra-curricular activities on the campus were confined to the A. S. M. E.



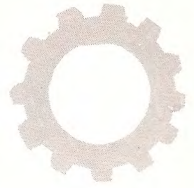
Bernard Coopersmith

"Bernie" was a man who liked to get things done. During a senior year replete with much indecision, he, as president of the Senior Class, originated the Spring Round Up Dance, and with keen logic directed action on the numerous proposals presented by the class. His able leadership was interrupted by a call to the armed forces. His knack of obtaining wholehearted cooperation and his ability for reaching quick decisions placed him in the high esteem of his classmates. When not occupied with class affairs, "Bernie" found an outlet for his competent forensic abilities in membership on the Student Council.



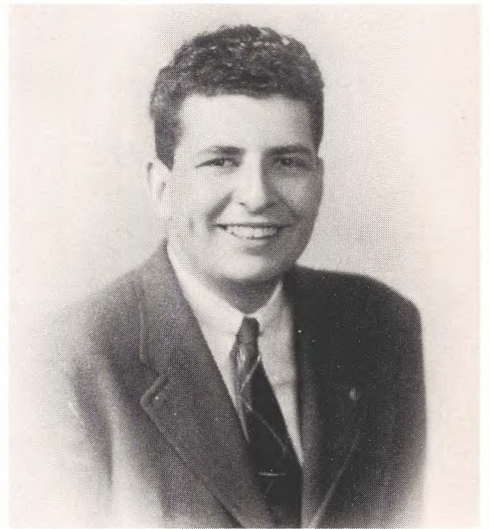
George F. Doby

George was one of the older members of the class, having been transferred from the night school. Wit and helpfulness were his trademarks both in class and at Eastern Aircraft, where he held down a full-time job. George was an ardent boating and driving fan. In addition to his Mercury convertible coupe he owned a 1929 Ford, which resembled and sounded like a "rolling junk pile". In class George could be depended upon to contribute something whenever a controversy arose, especially in discussions dealing with labor and management. Because of his outside work, his activities were limited to the A. S. M. E.



Jerome D. Franklin

"Jerry" was a native of our fair Newark, and a fugitive from Weequahic High. He possessed that envious virtue of sticking to a problem until ultimate success was attained. In addition to earning good grades, "Jerry" found time to do more than his share for N. C. E.; being active in the A. S. C. E., intramurals, Technician and Yearbook staffs, and working three nights a week. His ability to take a ribbing as well as give one, and his unfailing good humor placed Jerry high in the esteem of his classmates, and assures him of success in his choice of future endeavor.



Amos P. Fruchet

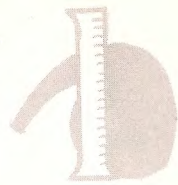
Amos, alias "The Frog", could always be counted upon to be on the spot regardless of the event. An excellent supporter for the reputation of Frenchmen as lovers, "The Frog" and his escapades (at least they made good stories) were a source of endless chuckles, and will undoubtedly be recorded in the annals of N. C. E. In addition to his varied outside interests, he found time to do his bit for the Fencing Club, Student Council, A. S. C. E., Rifle Club, Technician, and various dance committees. His ever-ready smile and witty remarks will win him friends, wherever he may be.





Alfred F. Harter

An indomitable will was "Pete's" outstanding characteristic. Almost nothing could alter his decisions, once they were made. Indifferent to the idea that marks alone indicate ability, he spent a fair amount of time on his studies and a maximum in pursuit of diverse interests. Nevertheless, he knew when to "get in there and pitch", and was consistently good in his studies. "Pete" understood and appreciated what knowledge can do, and it is certain that with the qualities inherent in him, he should make the most of any projects he undertakes in his future life.



Harold Held

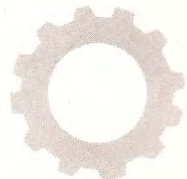
Harold divided his efforts among many and varied fields. Notable among these were his service as a corporal in the New Jersey State Guard, his activities as a radio operator, and his interest in a particular nurse from his home town, Paterson. Harold was one of those willing individuals who could argue for the enjoyment of the argument alone, as evidenced by his frequent participation in the heated discussions which arose among the electricals almost every lunch hour. A good part of his remaining time at N. C. E. was devoted to the Radio Club, Chess Club, and the A. I. E. E.



Robert J. Jordan

One member of the class to whom the success of the Nucleus was in a large measure due, was "Bob". It was through his artistic ability that much of the layout work on the yearbook was accomplished. He also helped to boost the Spring Roundup Dance with his eye-catching publicity posters. Although outwardly a lackadaisical fellow, he did demonstrate a cooperative spirit.

A commuter from Elizabeth via a 1933 DeSoto "limousine", he often chauffeured fellow students. He was active socially, and his exploits around town were a familiar topic of discussion. "Bob" was also a member of the A. S. M. E.





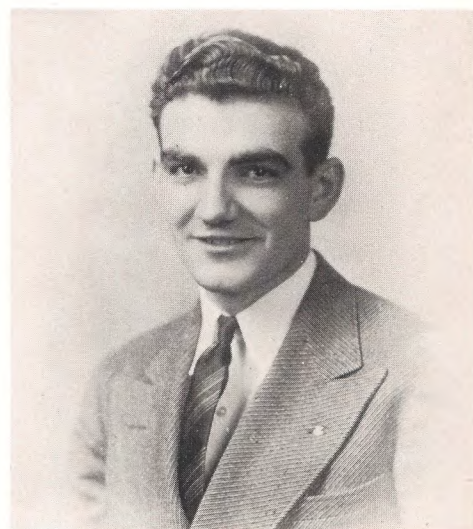
Albert Karel

"Eli", during his college years, took much kidding, but showed he could take it. He had few spare moments because of the special night courses on his daily schedule. However, he found time to spend in a shoe store where his "one and only" worked. Common occurrences were his frequent consultations with the Ouija board on such vital issues as, "What's the answer to this transmission problem?", or "What will be the date of my marriage?" "Eli" also gave much support to N. C. E., being on its basketball team, a member of the A. I. E. E., and a frater of Phi Delta Mu.



Bernard P. Leber

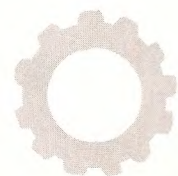
"Bernie", who solved his scholastic tasks with little difficulty during three years at N. C. E., found time to enjoy many outdoor sports, principally golf. He could often be seen on the links during spare hours. His favorite indoor sport centered around the billiard table, and many classmates learned from personal experience that he was a tough man to beat. His timely wit, coupled with a more serious side, made him well liked by all his classmates, and from his abilities thus far demonstrated, he should fare well in his chosen profession. He was president of the Phi Sigma Omega fraternity.



John J. Lessa

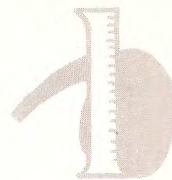
John was one of the most industrious workers in the Senior Class. His inherent sincerity, however, made him the ideal butt and target for many a practical joke from the many practical jokers among his classmates, throughout his stay at N. C. E. If the teachers neglected his foolish mistakes on tests, he always had a perfect paper; if they didn't, his companions were ready with the towel.

However, he took each prank good-naturedly and proved himself a good sport. This won him the lasting friendship of his classmates, as his diligence in the classroom won the respect of his professors.



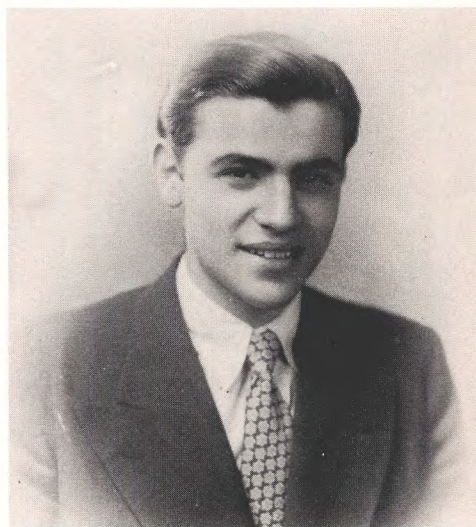
Robert F. McCarthy

"Mac" was the irrepressible Irishman of the senior Chemical section. He could always be relied upon to enliven any dull class with his bits of "philosophy", and at least one member of the class can testify that his numerous pranks kept "her" constantly on the alert for what might happen next. "Mac's" chief avocation was sports. In high school he was on his class tennis team, and at N. C. E. he played basketball for his section. He also listed baseball and golf as special interests. His extra-curricular activities included participation on the yearbook staff and also as a member of the A. C. S.



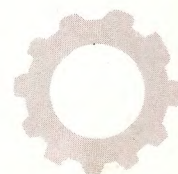
William Milwitt

If ever the Electricals felt down-hearted, they could always call on "Bill" to bolster their spirits; nevertheless, he also had his serious moments. Anyone attending those frequent lunchtime discussions in the electrical laboratory will vouch for the keenness and the scope with which he viewed the many topics. This unique ability for merriment as well as for concentration provided the explanation for his positions as cataloguer of Tau Beta Pi, official spokesman for the A. I. E. E., and his being a member of several committees about the school. "Bill" obtained his daily physical exercise chiefly in walking back and forth from the railroad station.



Frank Niesz

Frank was also a night school student. His will to learn and capacity for perseverance was apparent when it is remembered that he started evening school in 1937. An even more startling fact about Frank is that he still found time to work for the Singer Manufacturing Company as a toolmaker, even after he transferred to day school. Not to be daunted socially, either, he was able to participate in school affairs, both as to dances and other activities. He will be remembered by his fellow classmates for his intense desire to get his tuition's worth of education from the pros.



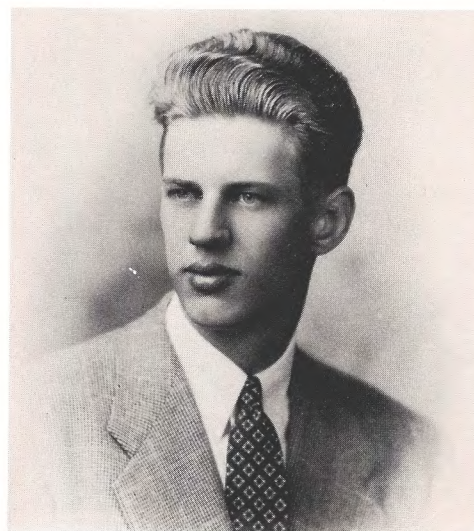
David E. Pettigrew

"Dave" was Clifton's contribution to the Senior class. He was an assiduous student, being president of the Glee Club for several years, Assistant Editor of the Technician, a member of the Nucleus staff, a member of the Student Council since his Sophomore year, and treasurer of the A. S. C. E. Besides keeping up on his studies, "Dave" worked for a city engineer, and could often be seen chasing around northern New Jersey with a transit in one hand, and a pipe in the other. His willingness to "chip in and work" and his pleasing smile should take "Dave" far on his road to success.



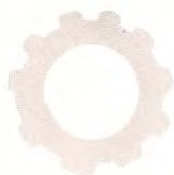
Harry Rab

Harry's "easy-going" manner won for him many friends at N. C. E. On the campus he was always seen in the midst of a group of fellows. In class however, he was a rugged individualist. Harry played center on the varsity basketball team, and it was partly through his influence that N. C. E. won its first basketball conference championship. His prowess on the court won him recognition as one of the outstanding players of the Northern New Jersey Intercollegiate Conference. He also participated in intramural softball and basketball. In his senior year Harry was elected president of the A. A. as a reward for his athletic ability.



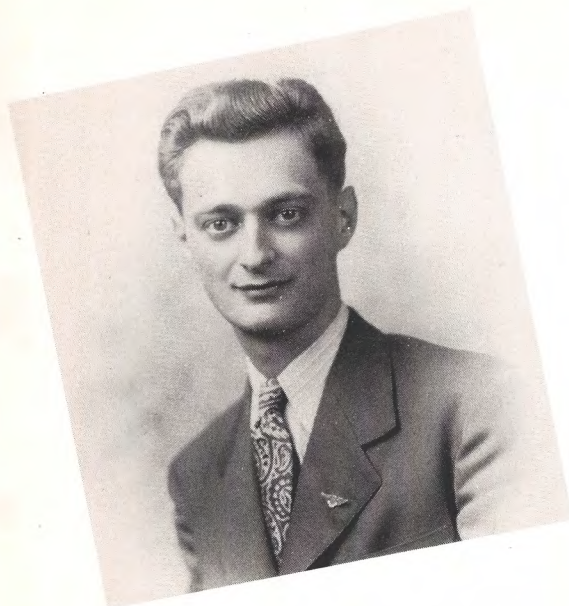
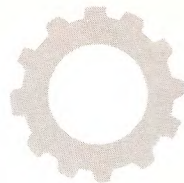
Wilbur A. Rath

"Willy" was one of the moody members of the Electricals. When he was near the zero point of his sine wave he was extremely quiet, but when he neared the maximum values he was a grand fellow. He was active in his fraternity, which was Sigma Pi. Any Friday, when Wilbur was not working on an experiment, the odds had it that he was either bowling or skating. His loyalty belonged to Rahway though he had moved from there, and rarely did a game go by in which Rahway High School participated, that did not find Rath on the premises.



Philip Rosenblum

"Phil" was one of the quieter members of our class, yet he "got around". Well-liked by the other members of his class, he was always willing to help a student who was "stuck" on a problem. His careful analysis of problems greatly helped in their solution. He also worked part time in the chemistry lab at Wallace & Tieman, where he "kept things rolling". His activities in school were rather limited, but he was one of the mainstays of the Chess Club, as well as a member of A. S. M. E. He hopes to be an aeronautical engineer.



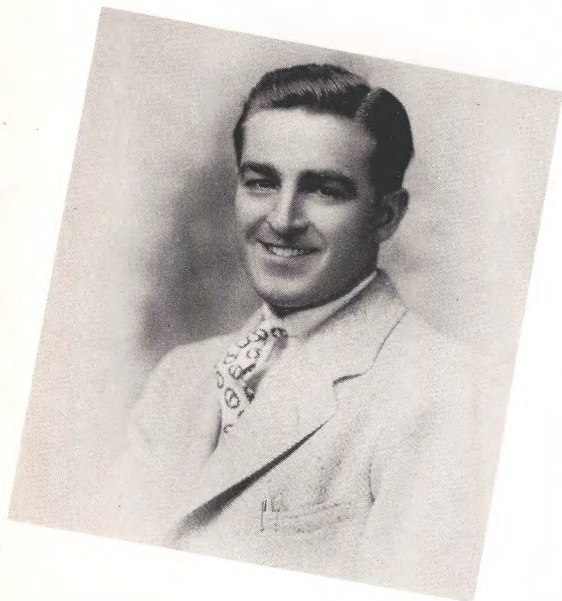
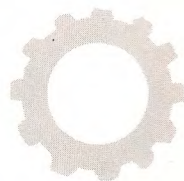
Leonard Rubin

During the past season, one of the outstanding members of the N. C. E. Varsity Basketball team was "Lenny" Rubin. Lenny was not only one of the youngest members of his class, but also one of its top-ranking men. He frequently enjoyed "sidetracking" the instructors, especially by raising questions of a political nature. Rubin was President of the student branch of the A. I. E. E., a member of the Student Council, a member of the Nucleus Staff, and also a member of the Joint Professional Societies Committee.



Frederick Russell

"Fred" was another of the fellows who had transferred from night school after six and one-half years, so that he might graduate sooner. During this time he also worked as a tool maker. His future was doubtful because of war conditions, but, he was content to take things in their stride and to settle his worries by relaxation. This was usually achieved by sailing his snipe along the Jersey shore whenever possible. "Fred" did well scholastically, but seemed to find much fault with his professors, which resulted in many arguments. He was also a student member of A. S. M. E.





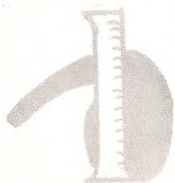
Harvey Segal

Harvey's winning personality made many friends for him in his college years, as evidenced by his elective offices. Harvey was president of the American Chemical Society and treasurer of Phi Delta Mu fraternity. The latter group owed him a debt of gratitude for his activity on their behalf. Harvey was also a member of the Student Council and was on the photography committee of the Nucleus. He made quite a name for himself scholastically in the last two years, but the Chemicals will always remember him as the fellow who tried to get a sodium thiosulfate end point using hydrochloric acid.



Julius Shrensel

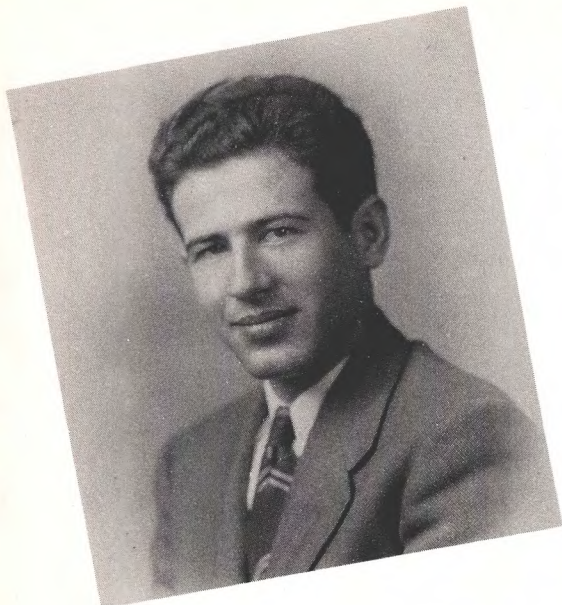
The source of "Jules'" unlimited energy always remained a mystery to his classmates. He was best known in scholastic circles for the chemical research he and Loni Windbuehl conducted under the supervision of Dean Bradley. Besides always having his homework done on time, "Jules" engaged in other activities. He was historian, secretary, and vice-president of the Phi Delta Mu fraternity, special reporter for the Technician, and a member of the Nucleus' literary staff, the American Chemical Society, and the Student Council. Participating in heated discussions of a political nature was his greatest delight.



Bernard M. Smith

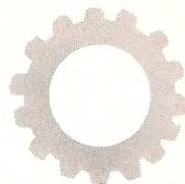
"Smitty" will always be remembered for his activities in the A. S. M. E., and the energy which he set forth. As chairman of the A. S. M. E. he carried his spontaneity to the members of that society. His jovial nature also made him welcome in any group and won for him an admirable reputation. Another of his activities included the Student Council, where he served on the committee for the revision of activity award credits. His desire for expressing his opinion on a controversial matter was well-known by his classmates, and often led to very lively discussions.





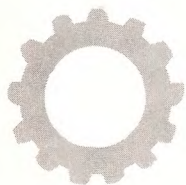
Millard L. Spialter

"Everything comes to him who waits", and Millard hit the jackpot in his Senior year. Just about the time when most of the other seniors began the customary pre-graduation siesta, the presidencies of the Senior Class, Tau Beta Pi, and A. S. M. E. were dumped into his lap by the departure of the incumbents for the armed forces. These were in addition to his being Editor-in-Chief of the Nucleus, business manager of the Technician, and Student Council member. Millard was a Phi Delta Mu, and also participated in intramurals and N. C. E. musical organizations. In his spare seconds, he held two daily part-time jobs.



Emil M. Spina

Emil was one of the few members of the class, who, entering as a February freshman, was able to make good, and rise to a position of outstanding respect. He was president of the Student Council in his last year and Treasurer of his Junior class. He was also a member of Tau Beta Pi, the honorary engineering society, the A. S. M. E., and was president of Delta Sigma Zeta during his junior and senior years. Despite all these activities Emil still had time to participate in intramural basketball and softball. Socially inclined, he could generally be seen at any affair sponsored by N. C. E. groups.



Alvin J. Stein

"Ted", as he was better known, commuted from Plainfield every day to attend classes at N. C. E. He had the knack of mixing school work with extracurricular activities, and doing them both well. During his Senior year he held such offices as the class treasurer, Dance Committee member, president of the A. S. C. E., circulation manager of the Technician, yearbook member, and many others. "Ted" will also be remembered for his loud shirts and bow ties, and his timely advice. Being one of "The Four" pleased him a great deal, and all were glad to have such a swell fellow around.



Joseph Stripounsky

One of the truly bright lights of the Electricals was Joe "Strip". His ability to entangle any topic with Belgium or France was remarkable, even to his selection of female acquaintances. Joe's record of doing a good job was shown by his many activities, including those of treasurer of the student branch of the A. I. E. E., member of the Technician and Nucleus Staffs, corresponding secretary of the Tau Beta Pi Association, and member of numerous committees. His knack of doing about four different jobs for student service in addition to private tutoring, was an act difficult to duplicate.

Theodore Szulczynski

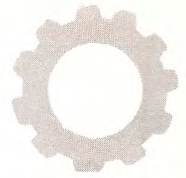
"Ted" had perhaps one of the best research minds in the class. His desire to tinker with all sorts of devices earned him the nickname of "Isaac Newton". Although a Mechanical by choice, he was in "heaven", when working on things electrical in nature; the more complicated the circuit, the better he liked it. Though slight in physique, he liked athletics, and participated in intramural sports. Scholastically, "Ted" did very well in all subjects. Though holding down an outside job he still found time to help out with the Nucleus. Other hobbies included model-boat building and radio repair.

Joseph Taboada, Jr.

Although "Joe" left the Senior Electricals early in May at the request of "Uncle Sam", he was still regarded as a member of the class. While he was at N. C. E., "Joe" devoted much of his spare time to school activities, which included membership on the swimming team, vice-president of the A. I. E. E., and membership in the Student Council. When not busy with school and class activities, "Joe" could generally be found actively engaged in the affairs of his fraternity, Phi Sigma Omega, for which he was one of the hardest workers among its members.

Patrick A. Travisano

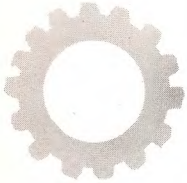
Chief responsibility for the success of the Spring Roundup Dance, only large scale N. C. E. dance during the class senior year, went to "Pat" for his excellent job as chairman of the affair. Always active socially, "Pat" was well-equipped with good looks and pleasing personality. His nimble fingers on the keys of a piano provided entertainment at many an informal gathering. A good athlete, "Pat" played intramural basketball, softball, and football, in addition to holding membership in outside athletic clubs. He was also president of his Junior Class, a member of the Student Council, and a member of A. S. M. E.



Anthony Verdesca

"Tony" was one of the most likeable fellows in the Senior Class. His pleasing personality and ready wit made him an interesting companion. In class he was a hard worker, and his diligence won for him the respect of both teachers and classmates. Never one to be boisterous, he spoke in class only when he had something important to say. His favorite subject was automobile engines. Experience gained through working in a garage made him quite an authority on this subject.

Outside of class, "Tony" was active in sports, playing softball and basketball. He also belonged to the A. S. M. E.



Norman Weiss

Norman will be well-remembered for his whimsical remarks. To one who knew only this side of his character, it was surprising to find that beneath the humor was knowledge. It was strange to be stumped by some difficult point in a lecture, and suddenly hear Norman expound brilliantly on the subject. A native of Plainfield, he was relieved of a great deal of ready cash in commuting from this city during his college career. Without exaggeration, "Norm" may also be classed among the greatest epicures and gourmands of all time, having made a hobby of frequenting the local "hash-joints".



Gerald Wilner

Jerry spent much of his time either working on radios at home or at the "Linden Radio Service". During his senior year, he served as a virtual chauffeur for the Electricals, being the only one with a car. He was very handy with tools and took advantage of this ability by making changes or additions to his car. When it came to writing reports, Jerry's were always notable because of the care and elaborateness of his drawings. His membership in the A. I. E. E., the Institute of Radio Engineers, the Radio Club, and the photography staff of the Nucleus further illustrate his sincere interest in his chosen field.

Loni J. Windbuehl

Loni's scholastic attainments and her wide variety of extra-curricular activities made her a well-known figure on the campus. The fellows respected "Windy" for her ability to both give and take in rapid repartee, especially when "Mac" was involved. She was the original fourth-termer, being secretary of the class for four years. Loni was also a member of the Glee Club, Orchestra, Nucleus staff, the one-woman committee on rings, and vice-president of the A. C. S. For all this she earned an Activity Award Key. Loni's scholastic abilities netted her the coveted Woman's Tau Beta Pi Medal.

Edward Wirkijowski

"Ed" was one of the younger members of the class, having entered N. C. E. in February 1942 on his seventeenth birthday. He possessed that rare, happy combination of good common sense, better-than-average intelligence, social congeniality, and athletic versatility. "Ed" was one of the class' letter men, having participated in intramural basketball and softball. His ability on both court and diamond sparked the Mechanical team to victory in many a sports contest.

After school hours "Ed" worked part-time at Federal Telephone and Radio along with several of his fellow classmates. He was also a member of A. S.

Undergraduates

THE INVOLVEMENT of the nation in World War II wrought many profound changes in the structure of the college's academic program. Terms, which ordinarily ran from September to June, with no summer classes except for February freshmen, were compressed into an accelerated program. An entire new set of men was enrolled at the beginning of every semester, three times a year, resulting in rather complex classes in a short time. The Juniors, Sophomores, and Freshmen included mixtures of first and second semester students, and each division had its own officers. Registration among the second and third year men was small due to the draft situation.

Undergraduates were also involved in numerous other changes in the school and its policies. Some of the modifications of the more favorable kind included cutting out of most final examinations and increase in enrollment among co-eds. Classes in Principles of Engineering and Staff Control were reduced to one hour each to allow time for gym classes designed to improve the general physical fitness among students. The Civil Engineering curriculum and aeronautics option were abandoned, and many of the professors and instructors left for the armed forces and positions in industry. New laboratory equipment was scarce due to war shortages, but the school managed to secure two Lycoming 9-cylinder, 250 horsepower, radial aircraft engines for its mechanical engineering laboratory.

Class activities were rather limited to ordinary routine matters. The traditional dances were a thing of the past. No one class had the moral or financial support to carry out such an undertaking. The only dance held during the Senior Class' last year was the Spring Roundup, which required the financial cooperation of all the classes in order that it might be held in an atmosphere comparable to dances of pre-war days. It proved to be a highly successful affair.

Junior Class



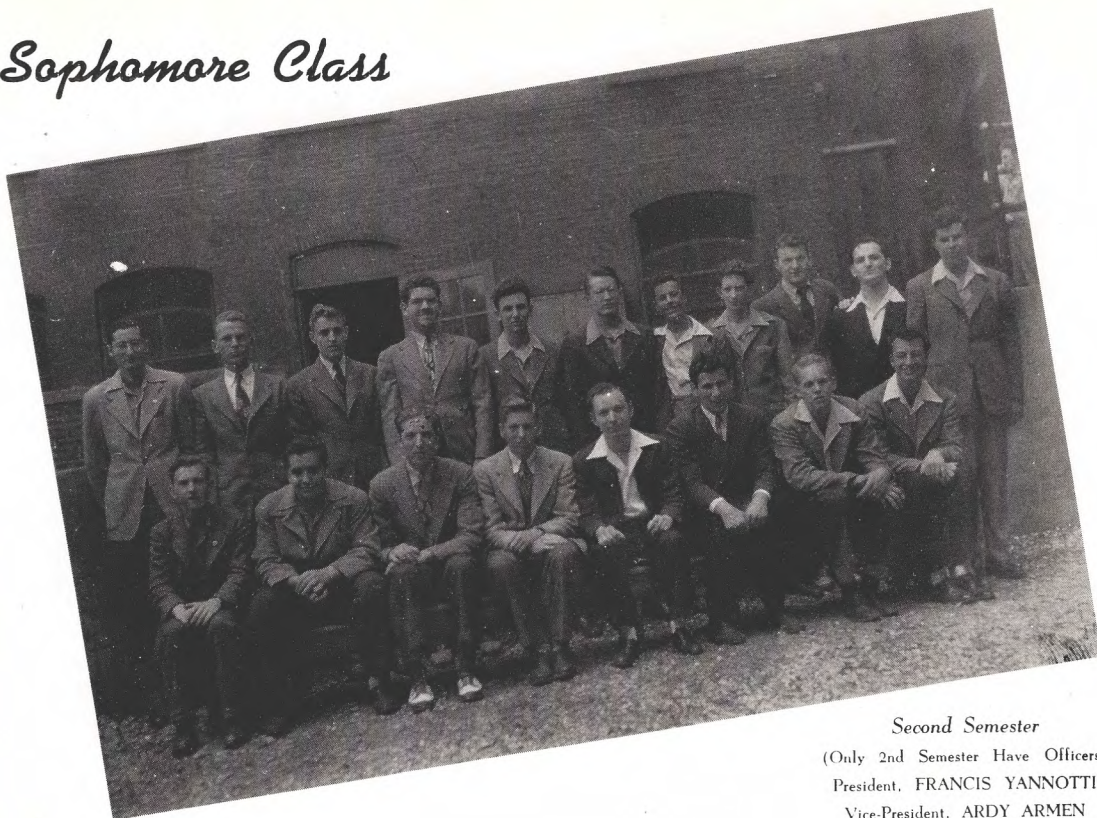
Second Semester

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Vice-President, ALBERT DORMAN
Secretary, RAY KANKOWSKI
Treasurer, MARJORIE WOOD

First Semester

President, EMANUEL VITO
Vice-President, BENJAMIN LEVY
Secretary, RAY KACZYNSKI
Treasurer, EDWARD LUX

Sophomore Class



Second Semester

(Only 2nd Semester Have Officers)

President, FRANCIS YANNOTTI

Vice-President, ARDY ARMEN

Secretary, LESLIE WELTCHEK

Treasurer, SOL SLOTNICK

Freshman Class



Second Semester

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Vice-President, MICHAEL BRAVETTE

Secretary, NORMAN REDLICH

Treasurer, JEROME HOFFMAN

First Semester

President, R. J. RYAN

Vice-President, W. C. RYAN

Secretary, BERNICE HARRIS

Treasurer, J. C. RYAN

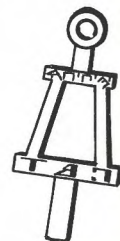
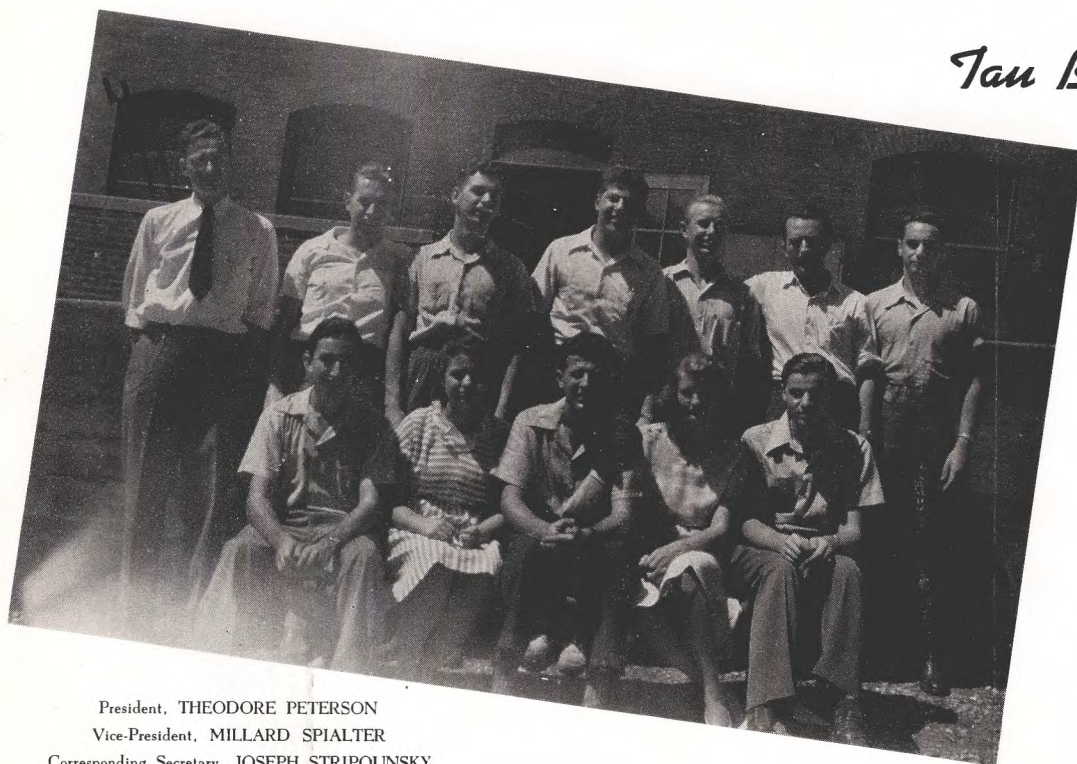
Fraternities and Professional Societies

ALL OF N. C. E.'s pre-war social and honorary fraternities were still functioning during the senior year despite decreased college enrollment and other war-time hardships. Nevertheless, evidences of the effect of critical times were not lacking. Several fraternities were forced to vacate their houses, due to housing and membership problems, and set up rooms in smaller quarters. Regulations were also modified and some activities curtailed. The pledge period was reduced to six swift weeks. Even so, pledges were few, and had to be "caught" young due to selective service demands.

However, these were only superficial effects, for underneath, the fraternity spirit still ran high. Despite cessation of interfraternity contests, the feeling of friendly rivalry persisted. Each fraternity upheld its honor, maintained its traditions, and looked forward to the future when the activities of "the good old days" would be resumed in a peaceful world.

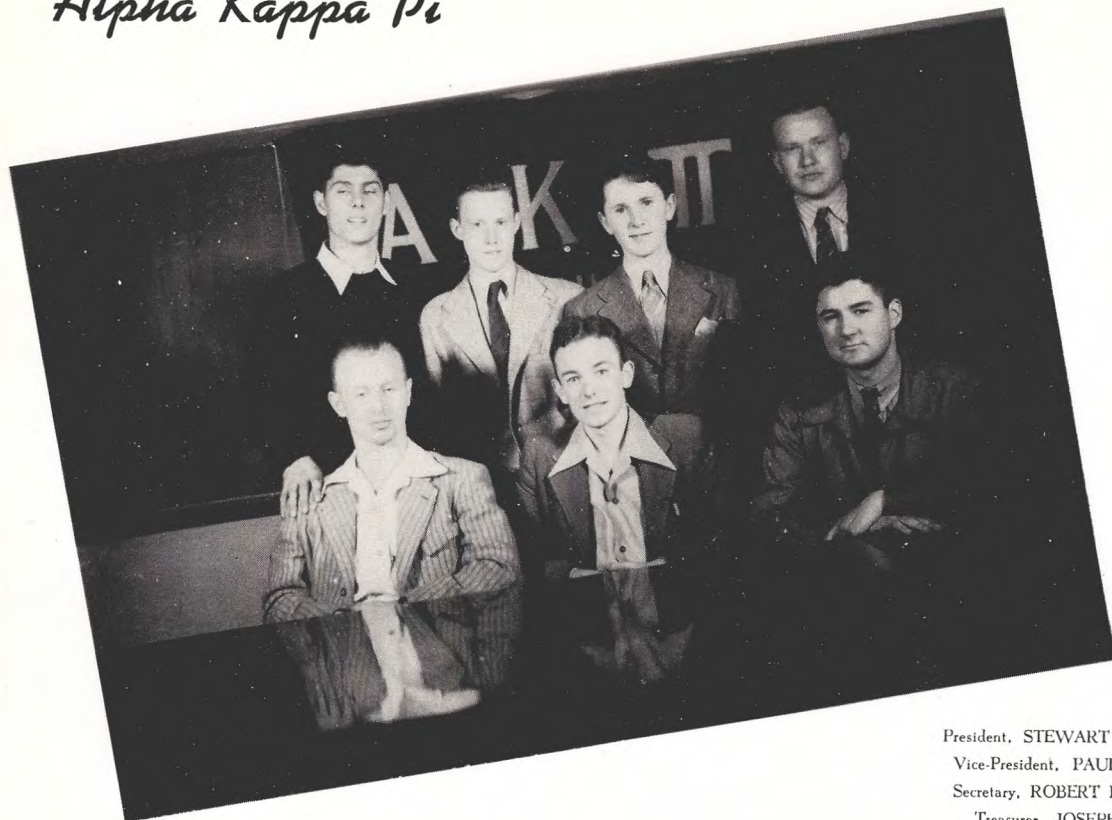
Along with other extra-curricular groups, the professional societies suffered from a lack of membership and a necessity for curtailed activity. Speakers were difficult to obtain, for usually being key men in important war industries, they had to devote more of their time to their work. All of the chapters tried to maintain their charters with the parent societies, but the A. S. C. E. decided to suspend its activities at the end of the school year. In an attempt to keep up with their regular meetings a joint professional societies' committee was formed, made up of the officers of the individual societies. The responsibilities for the meetings were divided among the various societies, and help was given by all towards their success. All meetings met with at least fair success, the Smoker and the demonstration of explosives by Professor Tully being especially memorable affairs.

Tau Beta Pi



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Vice-President, MILLARD SPIALTER
Corresponding Secretary, JOSEPH STRIPOUNSKY
Recording Secretary, NORD TAYLOR
Cataloguer, WILLIAM MILWITT

Alpha Kappa Pi



President, STEWART PATERSON
Vice-President, PAUL MELZER
Secretary, ROBERT LINDBERG
Treasurer, JOSEPH ZYDA

Delta Sigma Zeta



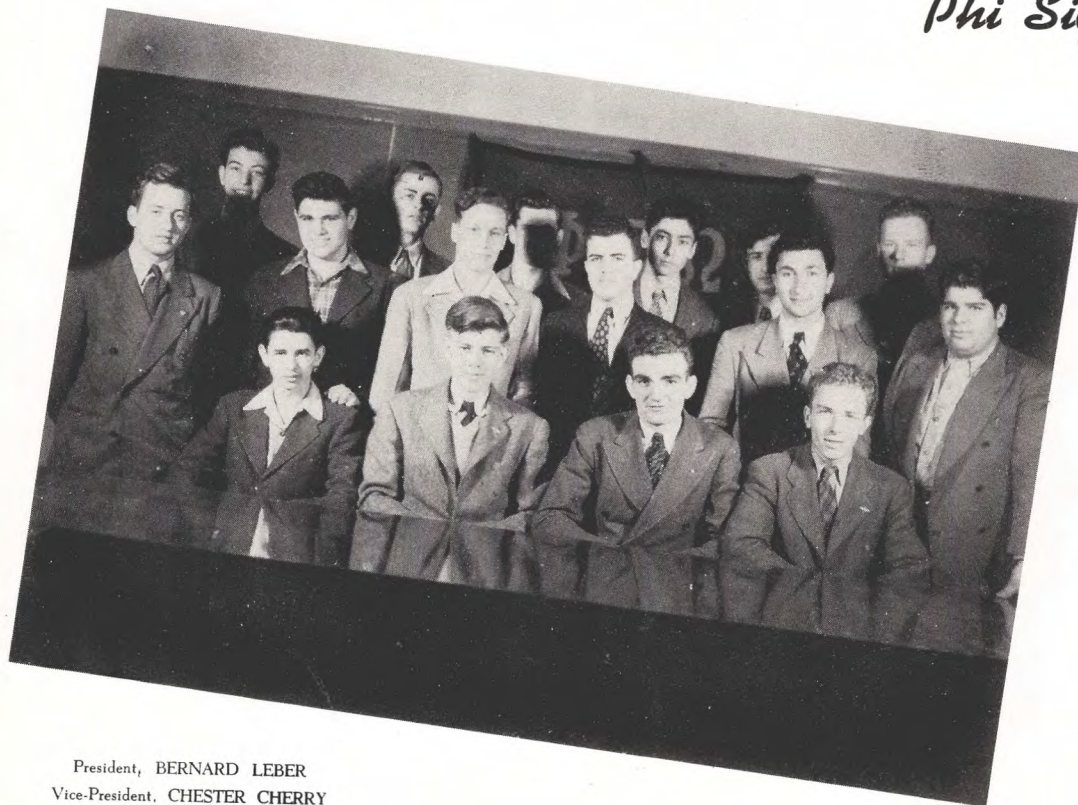
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Vice-President, GABRIEL DIMASI
Recording Secretary, JOHN STALUPPI
Corresponding Secretary, FRANCIS YANNOTTI
Treasurer, FRED ROSAMILIA

Phi Beta Tau



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 Vice-President, MYRON GOLDBERG
 Secretary, ALBERT DORMAN
 Treasurer, ALBERT POLL

Phi Sigma Omega



President, BERNARD LEBER
 Vice-President, CHESTER CHERRY
 Secretary, LARRY WHEATON
 Treasurer, ROBERT MOORE

Phi Delta Mu



President, SIDNEY CAPLAN
 Vice-President, MYRON BELL
 Recording Secretary, JEROME FRIEDMAN
 Corresponding Secretary, HAROLD BLACKER
 Treasurer, HARVEY SEGAL

Sigma Pi



President, RICHARD MARSH
 Vice-President, EDWIN CAMPBELL
 Secretary, EDWARD GOVIGNON
 Treasurer, JOHN PAINTER



American Chemical Society



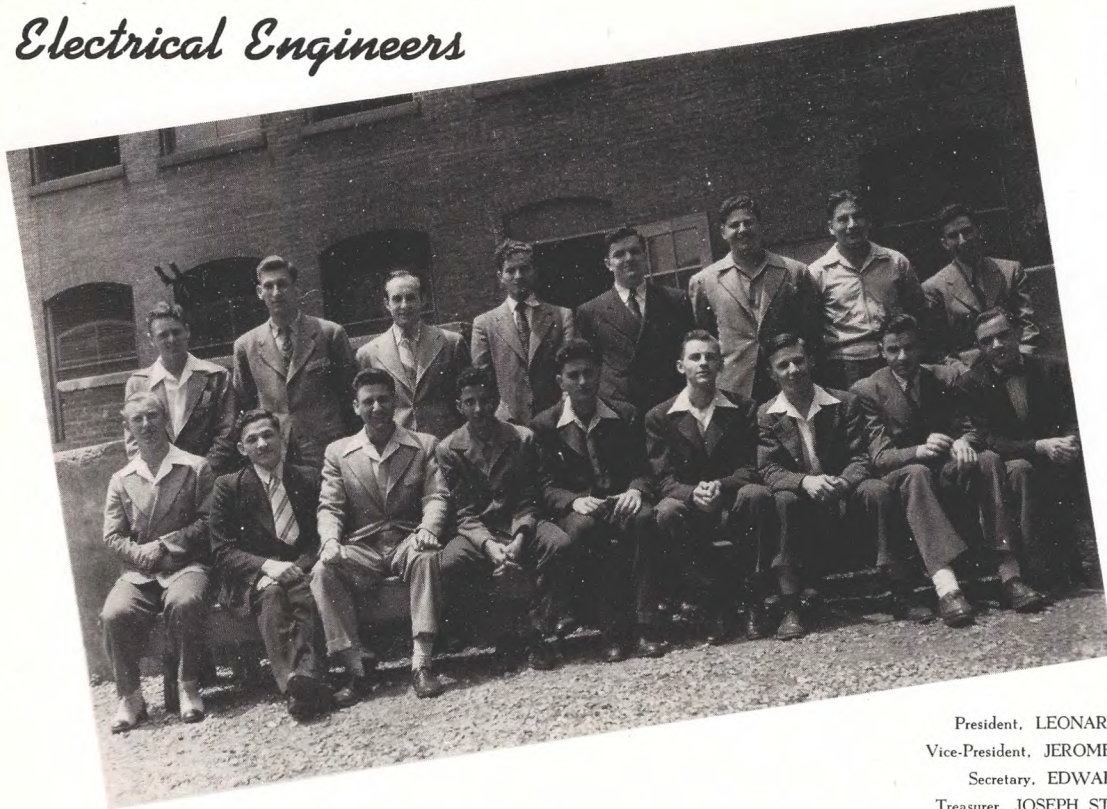
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 Vice-President, LONI WINDBUEHL
 Recording Secretary, LARRY WHEATON
 Corresponding Secretary, MARJORIE WOOD
 Treasurer, BERNARD LEBER

American Society of Civil Engineers



President, ALVIN STEIN
 Vice-President, JEROME FRANKLIN
 Secretary, AMOS FRUCHET
 Treasurer, DAVID PETTIGREV

American Institute of Electrical Engineers



President, LEONARD RUBIN
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Secretary, EDWARD LUX
Treasurer, JOSEPH STRIPOUNSKY

American Society of Mechanical Engineers



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Recording Secretary, ERNEST LABAGH
Corresponding Secretary, CHESTER CHERRY
Treasurer, PAUL MELZER



Activities

THE ACTIVITIES of the students at N. C. E. were rather limited in variety and scope. Most of the clubs had disintegrated from the start of the war for a number of reasons. Those still active, managed to "limp along", and maintain some semblance of organization. The Student Council, having to contend with the new classes that kept coming in, had a job in setting them up. Their other activities were confined to maintaining harmony among the few organizations still left.

The Athletic Association had a difficult time in trying to sell their activity cards to new, younger Freshmen, who were not able to settle down to college life because of the pressing demands of the speed-up program. The A. A. was able to sponsor a basketball team which won the Northern New Jersey Intercollegiate Championship for the first time. Track, fencing, and boxing had to be abandoned.

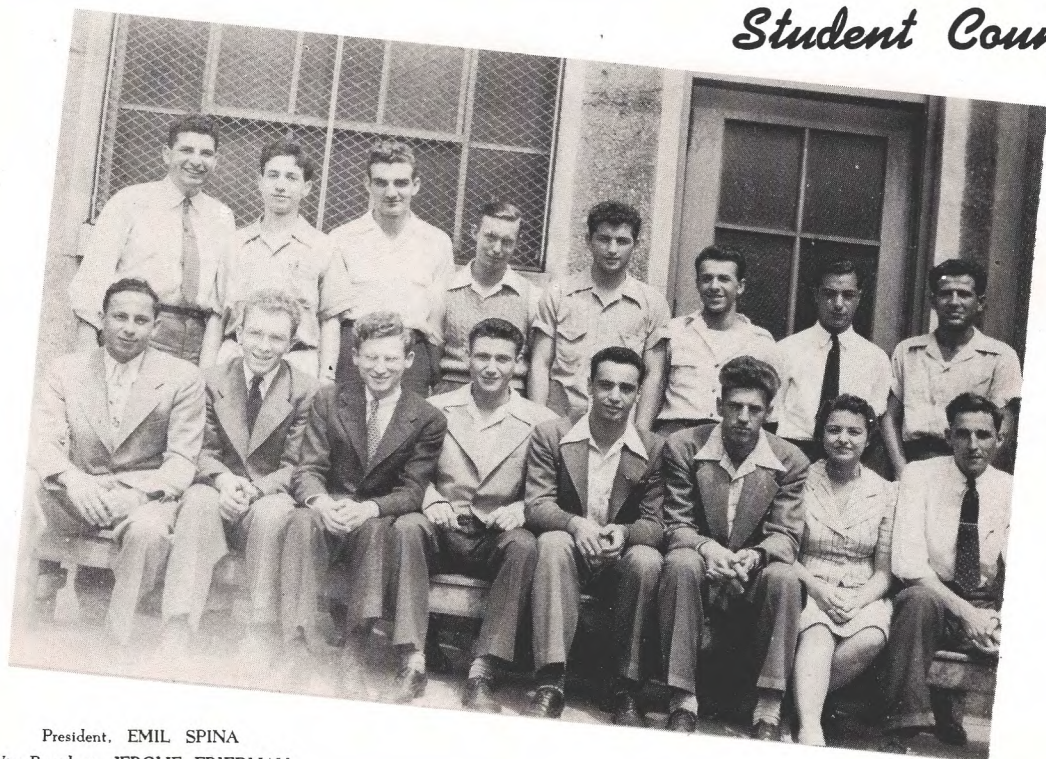
The Technician was able to keep functioning because of funds granted by the A. A. These donations helped revive this organization, after it had suffered a "relapse". Gradually increasing in activity, it was able to put out an edition quite regularly by the end of the second semester.

The Chess Club was able to keep functioning because of the relaxing nature of the games played. The lunch hour period was used to free the students' minds of school work. During the summer months, it too, declined in activity.

The Glee Club and Orchestra had been hard hit by the draft situation, the armed services claiming many of the main-stays. These musical organizations had to suspend their activities, but toward the end of the summer session, a revival was attempted.

The Nucleus Staff was organized for the purpose of establishing some permanent record of the activity of the school in general. The membership was, as usual, restricted to interest members of the Senior Class, and it is because of their efforts that this yearbook was made possible despite the critical times.

Student Council



President, EMIL SPINA
Vice-President, JEROME FRIEDMAN
Secretary-Treasurer, AMOS FRUCHET

Athletic Association



President, HARRY RAB
 Vice-President, JOSEPH ZYDA
 Secretary, PAUL MELZER
 Treasurer, ROBERT MOORE

Technician



Editor-in-Chief, MARJORIE WOOD
 Associate Editor, ROBERT SUGARMAN
 Associate Editor, DAVID PETTIGREW
 Business Manager, MILLARD SPIALTER

Nucleus Staff



MILLARD SPIALTER
Editor-in-Chief

Associates

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SIDNEY CAPLAN
STUART CASH
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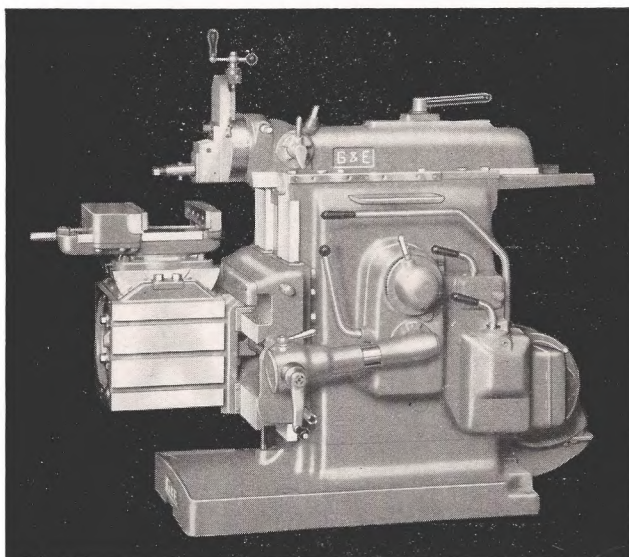
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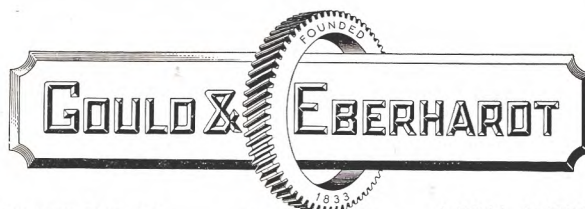
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